



FIG. 1

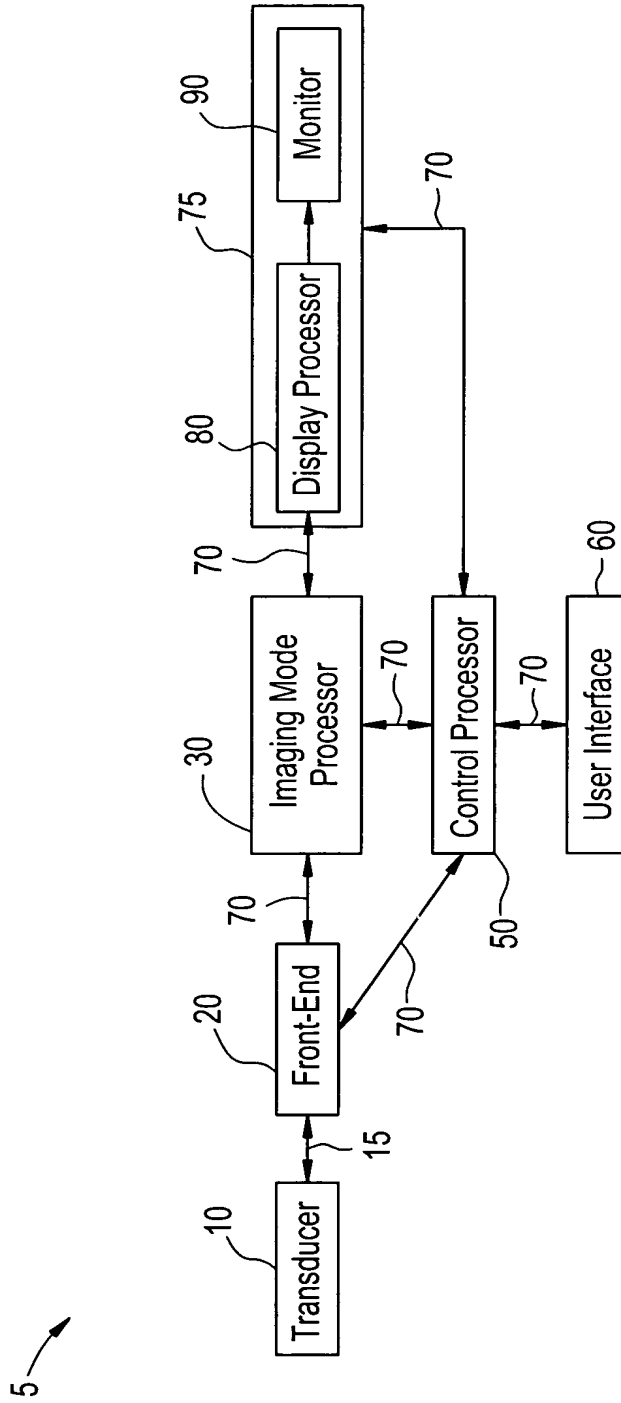


FIG. 2

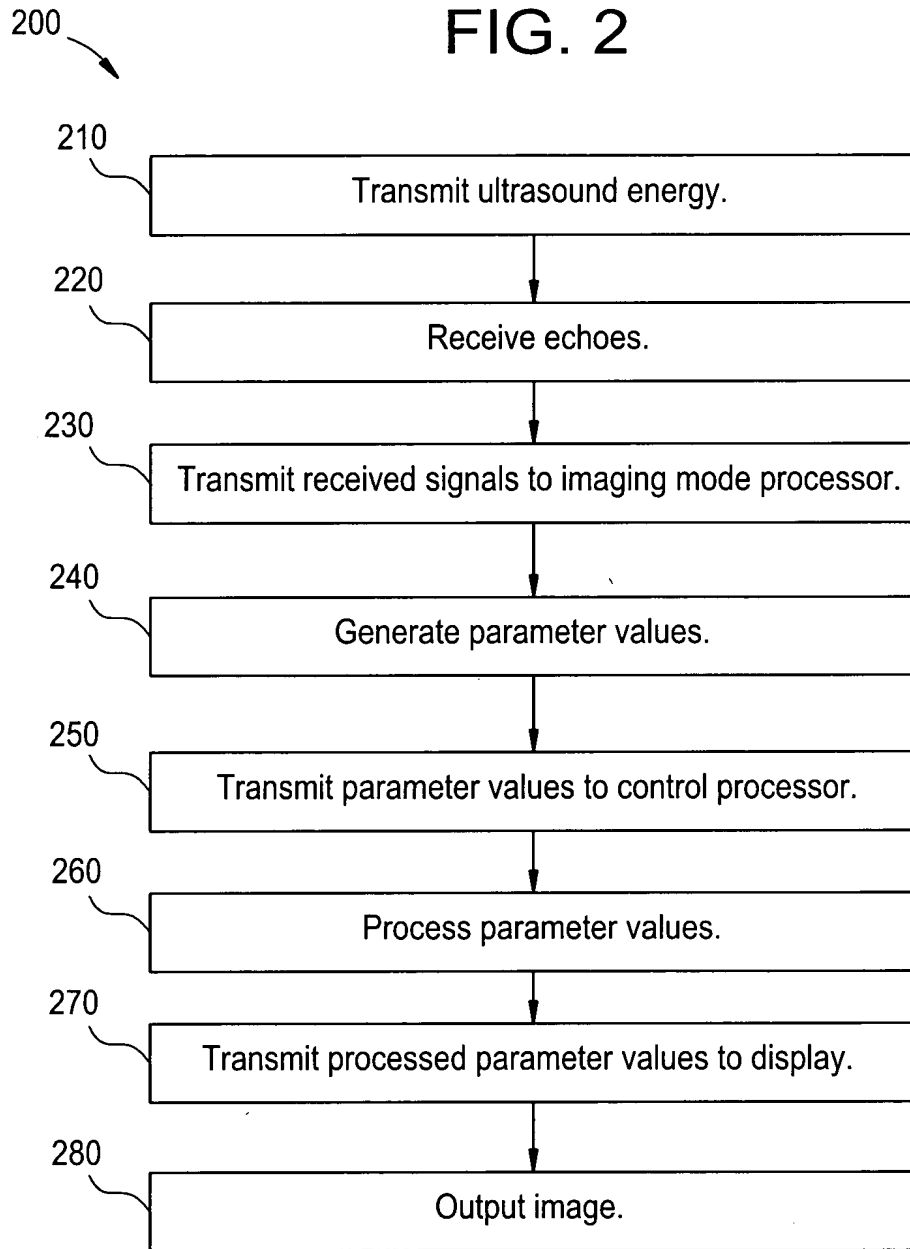


FIG. 3

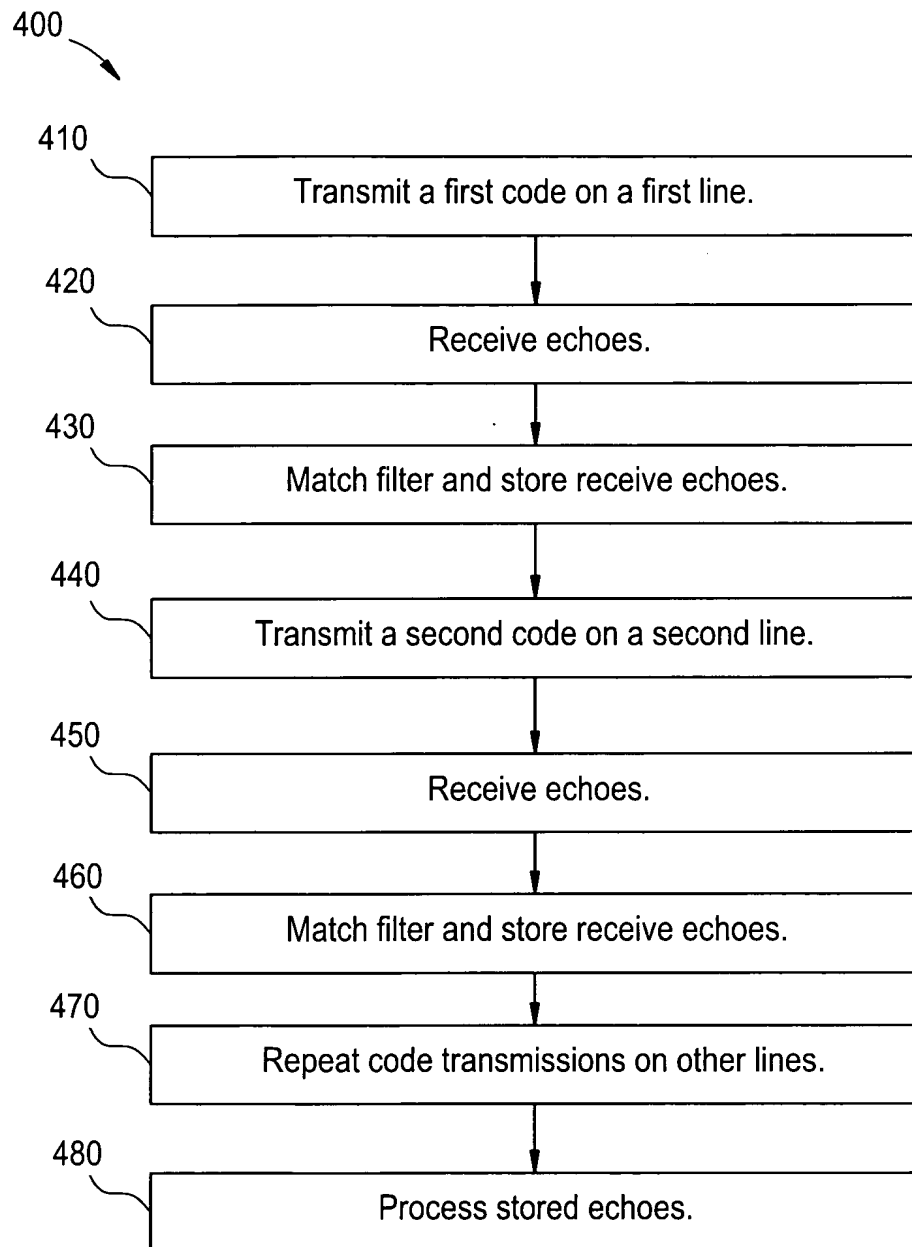
Conventional Golay Code: Frame rate loss due to Golay code's double firing
->2 firings per line

Line	1	2	3	4	5	6	...
Code	A	A	A	A	A	A	...
	B	B	B	B	B	B	...

Solution: Alternate Codes on adjacent lines and interpolate received RF

Line	1	2	3	4	5	6	...
Code	A		A		A		...
		B		B		B	...
RF Interp.	1'	2'	3'	4'	5'		...

FIG. 4



Alternate Solution: 1 3 3 1 Filter

FIG. 7

Diagram illustrating a 5x5 MIMO system with 5 Tx antennas, 5 Rx antennas, and 5 RF chains. The Tx Line has 5 antennas labeled 1 to 5. The Rx Line has 5 antennas labeled L1A to R5A. The RF Interp. has 5 chains labeled 1' to 9'. Arrows show the signal flow from Tx to Rx and then to RF Interp.



FIG. 8

